

Plant Tables

You and Your Land - Evergreen Trees							
COMMON NAME	BOTANICAL NAME	ZONE*	PREFERRED SITE CONDITIONS	GROWTH HABIT	MATURE SIZE	DISTINCTIVE FEATURES	NOTES
American Holly	<i>Ilex opaca</i>	5	moist soils, shade	pyramidal	40 ft.	red fruits	good landscape screen
Arborvitae	<i>Thuja occidentalis</i>	2	well-drained, moist soils part to full sun	pyramidal	40 ft.	lacy foliage	large hedge or windbreak
Austrian Pine	<i>Pinus nigra</i>	4	well-drained, moist soils, full sun	pyramidal	over 50 ft.	stiff, dark green needles	rapid grower, good windbreak
Eastern Hemlock	<i>Tsuga canadensis</i>	4	moist soils, shade	drooping branches	60 ft.	feathery, dark green foliage	wildlife food source
Leyland Cypress	<i>Cupressocyparis leylandii</i>	5	moist soils, part to full sun	pyramidal	50 ft.	small scale-like foliage	fast growing, can be pruned and used as a hedge or screen
Loblolly Pine	<i>Pinus taeda</i>	6	well-drained, moist soils, full sun	open	over 50 ft.	long needles	useful in disturbed or dredged soil, will tolerate mild salinity
Norway Spruce	<i>Picea abies</i>	2	moist soils, full sun	drooping branches	60 ft.	aromatic	fast growing
Scotch Pine	<i>Pinus sylvestris</i>	2	dry to somewhat poorly-drained soils, full sun	pyramidal to irregular	over 50 ft.	orange bark	very rugged
Southern Magnolia	<i>Magnolia grandiflora</i>	7	dry to moist soils, part shade to full sun	rounded	over 50 ft.	white flower, red fruits	good screen
Virginia Pine	<i>Pinus virginiana</i>	4	dry to moderately well-drained soils, full sun	open	over 50 ft.	sparse branching	good on poor soils
Virginia Cedar	<i>Juniperus virginiana</i>	2	dry to moderately well-drained limestone soils	pyramidal to columnar	over 50 ft.	blue fruits	long lived in full sun
White Pine	<i>Pinus strobus</i>	3	rich, moist, and heavy soils	pyramidal	over 50 ft.	drooping branches with upright tips	ornamental, useful in windbreaks

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You and Your Land - Large Deciduous Trees							
COMMON NAME	BOTANICAL NAME	ZONE*	PREFERRED SITE CONDITIONS	GROWTH HABIT	MATURE SIZE	DISTINCTIVE FEATURES	NOTES
American Beech	<i>Fagus grandifolia</i>	3	well-drained, acid soils, full sun	broad	70 ft.	smooth, light grey bark	beautiful shade tree, sensitive to soil conditions
American Sweetgum	<i>Liquidambar styraciflua</i>	5	moist, slightly acid soils, full sun	pyramidal	over 60 ft.	brilliant fall color	does not tolerate alkaline soils, susceptible to pests
Black Gum, Tupelo	<i>Nyssa sylvatica</i>	4	moist to wet soils	conical	80 ft.	brilliant fall color	used to naturalize areas
Black Willow	<i>Salix nigra</i>	4	moist to wet soils, full sun	drooping branches	65 ft.	feathery foliage	single or multiple trunks
European Beech	<i>Fagus sylvatica</i>	4	well-drained, acid soils, full sun	drooping branches	80 ft.	fall color	needs room to grow
Green Ash	<i>Fraxinus pennsylvanica</i>	2	moist to wet soils, full sun	broad irregular	70 ft.	pale yellow fall color	liked by birds
Hackberry	<i>Celtis laevigata</i>	5	rich, moist soils	broad crowned	over 60 ft.	yellow fall color	attracts birds, adaptable to urban conditions
Honeylocust	<i>Gleditsia triacanthos</i> "Moraine"	4	tolerates any soil, full sun	open	80 ft.	lacy foliage	popular shade tree
Katsura Tree	<i>Cercidiphyllum japonicum</i>	4	moist, well-drained soils, full sun	open	60 ft.	fall color	good street tree
Northern Red Oak	<i>Quercus rubra</i>	3	dry to moist soils, part shade to full sun	broad	70 ft.	spring and fall color	tolerates urban conditions
Red Maple	<i>Acer rubrum</i>	3	dry to wet soils, part shade to full sun	broad	60 ft.	yellow to red fall color	fast growing, popular shade tree
River Birch	<i>Betula nigra</i>	4	moist to wet soils, shade to full sun	pyramidal	over 50 ft.	reddish-brown exfoliating bark	adaptable to most soil conditions, short-lived
Scarlet Oak	<i>Quercus coccinea</i>	4	dry to moist soils, part shade to full sun	broad	70 ft.	red fall color	wildlife food source
Shagbark Hickory	<i>Carya ovata</i>	4	well-drained, alluvial soils, full sun	open	over 60 ft.	yellow fall color	pest resistant, plant young trees
Sourwood	<i>Oxydendrum arboreum</i>	5	moist soils, part shade to full sun	full, drooping pods	35 ft.	white flowers, fall color	will not tolerate polluted soils
Sugar Maple	<i>Acer saccharum</i>	3	moist soils, shade to full sun	broad crowned	60 ft.	yellow to red fall color	popular shade tree
Swamp White Oak	<i>Quercus bicolor</i>	3	wet, acid soils, part shade to full sun	broad	60 ft.	coarse leaves	naturalizes wet areas
Sycamore	<i>Platanus occidentalis</i>	4	moist to wet soils, full sun	open	80 ft.	bark	can be untidy, disease problems
White Ash	<i>Fraxinus americana</i>	3	moist to wet soils, full sun	broad	70 ft.	pale yellow to purple fall color	liked by birds
White Oak	<i>Quercus alba</i>	4	dry to moist soils, part shade to full sun	broad	70 ft.	red fall color	wildlife food source
Willow Oak	<i>Quercus phellos</i>	5	well-drained, acid soils, full sun	broad	50 ft.	leaves persist through winter	fast growing
Yellow Poplar	<i>Liriodendron tulipifera</i>	4	moist soils, full sun	broad	70 ft.	yellow flowers, yellow fall color	needs room to grow

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You and Your Land - Small Deciduous Trees							
COMMON NAME	BOTANICAL NAME	ZONE*	PREFERRED SITE CONDITIONS	GROWTH HABIT	MATURE SIZE	DISTINCTIVE FEATURES	NOTES
American Hornbeam	<i>Carpinus caroliniana</i>	2	well-drained soils, part shade to full sun	rounded	25 ft.	yellow to orange fall color	slow growing
Amur Maple	<i>Acer ginnala</i> "Flame"	2	well-drained, moist soils, full sun	branching	20 ft.	brilliant fall color	extremely hardy, should not be planted in natural areas - invasive
Chaste Tree	<i>Vitex agnus-castus</i>	5	well-drained, neutral soils, full sun	branching	6-7 ft.	fragrant blue flowers	late summer flower
Eastern Redbud	<i>Cercis canadensis</i>	4	moist soils, full sun	open	30 ft.	purple flowers	tolerates most soil conditions
Flowering Dogwood	<i>Cornus florida</i>	4	moist soils, shade to full sun	open	30 ft.	flowers, red berries, red fall color	native, Virginia state tree
Fringe Tree	<i>Chionanthus virginicus</i>	4	well-drained, acid soils, full sun	upright	30 ft.	white flowers	tolerates urban conditions
Golden Raintree	<i>Koelreuteria paniculata</i>	5	tolerates any soil, full sun	round to spreading	30 ft.	yellow flowers, showy capsules	tolerates urban conditions, drought, heat, air pollution, can be invasive
Korean Dogwood	<i>Cornus kousa</i>	5	well-drained, rich soils, part shade	open	20 ft.	flowers, fall color	flowers after <i>Cornus florida</i> , scarlet fall color
Sassafras	<i>Sassafras albidum</i>	4	dry to moist soils, part shade to full sun	open	40 ft.	mitten-shaped leaves	difficult to transplant
Servicberry	<i>Amelanchier canadensis</i>	4	well-drained, moist soils, part shade to full sun	open	40 ft.	white flowers	edible fruits, multi-stemmed, native to bogs and swamps
Star Magnolia	<i>Magnolia stellata</i>	5	moist, loamy soils, part shade to full sun	tree-like	15 ft.	white flowers	early blooms, fuzzy buds
Sweetbay Magnolia	<i>Magnolia virginiana</i>	5	acid, loamy soils, part shade to sun	open	25 ft.	fragrant flowers, lustrous leaves	does not tolerate drought or alkaline soils
Washington Hawthorn	<i>Crataegus phaenopyrum</i>	4	well- to moderately well-drained soils	dense upright	30 ft.	white flowers, red fruits, fall color	tolerates windy, harsh conditions
Wild Cherry	<i>Prunus pennsylvanica</i>	2	well-drained, sandy loam soils, full sun	irregular	25 ft.	white flowers	plant in woodlands, good bird food, leaves poisonous to horses and livestock

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You and Your Land - Evergreen Shrubs							
COMMON NAME	BOTANICAL NAME	ZONE*	PREFERRED SITE CONDITIONS	GROWTH HABIT	MATURE SIZE	DISTINCTIVE FEATURES	NOTES
Bearberry Cotoneaster	Cotoneaster dammeri	5	well-drained soils, part shade to full sun	trailing	3 ft.	red fruits	tolerates dry, rocky slopes, susceptible to fire blight
Boxwood	Buxus sempervirens	5	well-drained, neutral soils, part sun	hedge	4-5 ft.	leathery leaves	many varieties
Canada Yew	Taxus canadensis	2	moist, acid soils	low spreading	3 ft.	scarlet fruit	long-lived, hardy
Creeping Juniper	Juniperus horizontalis	2	moist, acidic, sandy soils, full sun	low creeping	3 ft.	trailing branches	hardy, tolerates dry slopes
Farkleberry	Vaccinium arboreum	7	well-drained, acid soils, part to full sun	spreading	12 ft.	fruit	native
Inkberry	Ilex glabra	3	wet soils, part to full sun	dense shrub	10 ft.	glossy, leathery leaves	native to swampy areas
Japanese Juniper	Juniperus procumbens	5	moist, sandy to loamy soils	low spreading with ascending branches	3 ft.	moss-like	disease and insect resistant, hardy
Japanese Yew	Taxus cuspidata	4	well-drained soils	dense, low shrub	4-6 ft.	dark green foliage, red fruits	long-lived
Pfitzer's Juniper	Juniperus chinensis pfitzeriana	4	well-drained soils, full sun	open, wide spreading	4-6 ft.	blue-green foliage	long-lived, hardy, subject to bagworm infestation
Prostrate Cotoneaster	Cotoneaster horizontalis	4	well-drained soils, part shade to full sun	horizontal	3 ft.	red fall color, red fruits	tolerates poor, dry soils, excellent for slopes
Sargent Juniper	Juniperus chinensis sargentii	4	moist, acidic, sandy soils, full sun	dense mat	3 ft.	steel-blue foliage	tolerates salt spray
Shore Juniper	Juniperus conferta	5	sand dunes, seashore, full sun	trailing	3 ft.	bluish-green foliage, black berries	salt tolerant, tolerates inland dry sand
Wax Myrtle	Myrica cerifera	6	acid soils, part to full sun	dense shrub	15 ft.	leathery foliage	good foliage plant

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You and Your Land - Deciduous Shrubs							
COMMON NAME	BOTANICAL NAME	ZONE*	PREFERRED SITE CONDITIONS	GROWTH HABIT	MATURE SIZE	DISTINCTIVE FEATURES	NOTES
American Cranberry Bush	Viburnum trilobum	2	well-drained, acid soils, part to full sun	dense shrub	12 ft.	red fruit	native
Arnold Dwarf Forsythia	Forsythia arnoldi	5	well-drained soils	dwarf, drooping branches	3 ft.	yellow flowers	branches root when they touch the ground
Arrowwood	Viburnum dentatum	2	any soil, part shade to full sun	upright branching	12 ft.	fall color, white flowers	good "filler" or hedge
Black Chokeberry	Aronia melanocarpa	4	moist soils	loose, upright	3 ft.	white flowers, red fall color	good woodland border
Black Haw Viburnum	Viburnum prunifolium	3	well-drained, acid soils, part to full sun	upright, can be small tree	10 ft.	white flowers, black fruits	native, wildlife food source
Bristly Locust	Robinia hispida	5	poor soils, full sun	low shrub, spreading	3 ft.	pink flowers, red bristles	invasive, use on slopes and poor soils
Bush Cinquefoil	Potentilla fruticosa	2	any soil	dense, woody mat	4 ft.	many flowers	sun loving
Chinese Witchhazel	Hamamelis mollis	5	well-drained soils, part sun	branching, can be small tree	20 ft.	large, fragrant flowers	least hardy of Witchhazels
Elderberry	Sambucus canadensis	3	moist soils	branching	10 ft.	red fruits	fruits attractive to birds
Flowering Quince	Chaenomeles speciosa	4	well-drained soils, part to full sun	branching	6 ft.	flowers	good as hedge
Fragrant Sumac	Rhus aromatica	5	well-drained soils	dense, low shrub	3 ft.	brilliant fall color	forms colonies
Japanese Spiraea	Spiraea japonica	3	any soil, full sun	upright clump	6 ft.	pink flowers	rooting branches, clump
Lowbush Blueberry	Vaccinium angustifolium	2	acid soils	low growing	8 in.	scarlet fall color	native
Mapleleaf Viburnum	Viburnum acerifolium	3	well-drained soils, shade	dense shrub	6 ft.	white flowers	fall color
Red Chokeberry	Aronia arbutifolia	4	any soil	compact	8 ft.	white flowers	best used in masses
Red Osier Dogwood	Cornus sericea	2	well-drained, moist soils, part to full sun	multi-stemmed	6 ft.	red twigs	spreads by stolons, protects banks
Scotch Rose	Rosa spinosissima	4	rich, loamy sand	mounded	3 ft.	pink flowers	tolerates dry sand
Siberian Dogwood	Cornus alba "Siberica"	2	well-drained, moist soils, part to full sun	multi-stemmed	8 ft.	red twigs	similar to Red Osier Dogwood
Silky Dogwood	Cornus amomum	5	well-drained, moist soils, part to full sun	multi-stemmed	8 ft.	purple twigs	native, good wildlife habitat planting
Smoke Bush	Cotinus coggygria	5	well-drained soils, full sun	upright	12 ft.	fall color	water until established
Snowberry	Symphoricarpos albus laevigatus	3	any soil, part shade to full sun	dense shrub	6 ft.	white berries	protects banks
Staghorn Sumac	Rhus typhina	3	poor, dry soils, full sun	branching	10 ft.	scarlet fall color	plant in clumps
Spice Bush	Lindera benzoin	4	moist soils, part shade to full sun	dense shrub	12 ft.	red fruit	native
Sweet Pepper Bush	Clethra alnifolia	3	moist soils, part shade to full sun	dense shrub	9 ft.	fragrant flowers	tolerates seashore conditions
Winter Jasmine	Jasminum nudiflorum	5	tolerates any soil and light condition	shrub/vine	15 ft.	early yellow flowers	protects banks
Winterberry	Ilex verticillata	3	wet soils, part to full sun	dense shrub	8 ft.	red fruit	good hedge planting

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You and Your Land - Vines and Ornamental Grasses							
COMMON NAME	BOTANICAL NAME	ZONE*	PREFERRED SITE CONDITIONS	GROWTH HABIT	MATURE SIZE	DISTINCTIVE FEATURES	NOTES
Big Bluestem	Andropogon gerardi	2	moist soils, full sun	upright, clump grass	3-8 ft.	reddish fall color	tall ornamental grass, use as background planting
Boston Ivy	Parthenocissus tricuspidata	4	tolerates most soils, full shade to full sun	vine		fall color	vigorous, can be invasive
Clematis	Clematis tangutica	5	light, moist soils, part sun	vine		yellow flower bells	hardy, best in sun
Climbing Hydrangea	Hydrangea anomola	4	moist, rich soils, part to full sun	vine		white flowers	can be invasive
Grape	Vitis labrusa varieties	3	well-drained, fertile soils, full sun	vine		edible fruits	native with many varieties, attracts wildlife
Indian Grass	Sorghastrum nutans	2	moist, rich soils, full sun	upright	3-8 ft.	plume-like seedhead	tall ornamental grass
Redtop	Agrostis alba	3	well-drained soils, full sun	bent grass	12 in.	purplish foliage	annual or perennial
Switchgrass	Panicum virgatum	5	tolerates any soil, full sun	upright	36-48 in.	reddish with plume seedhead	naturalizer, spreads quickly
Tufted Hair Grass	Deschampsia caespitosa		well-drained, moist soils, part shade to full sun	drooping	36 in.	purplish spikelets	spreads rapidly
Virginia Creeper	Parthenocissus quinquefolia	3	well-drained soils, part shade to full sun	vine		red fall color	attracts birds
Winter Creeper	Euonymus fortunei	5	well-drained soils, part shade to full sun	vine		evergreen foliage	many varieties, aggressive climber

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You and Your Land - Groundcovers							
COMMON NAME	BOTANICAL NAME	ZONE*	PREFERRED SITE CONDITIONS	GROWTH HABIT	MATURE SIZE	DISTINCTIVE FEATURES	NOTES
Bearberry	Arctostaphylos uva-ursi	2	poor sandy soils, full sun	mat	1 ft.	evergreen	tolerates slat spray, vigorous and trouble free
Blue Rug Juniper	Juniperus horizontalis "Blue Rug"	2	well-drained soils, full sun	trailing	6 in.	evergreen	tolerates hot sun
Bugleweed	Ajuga reptans	3	well-drained soils, part shade	upright	4-10 in.	semi-evergreen with blue, purple, or white flowers	fast growing
Creeping Cotoneaster	Cotoneaster adpressus	4	well-drained soils, full sun to full shade	branching	12-18 in.	red fruit	often roots where branches touch the soil
English or Baltic Ivy	Hedera helix	5	well-drained soils, full shade to full sun	trailing	6-8 in.	foliage	hardy with many varieties, may become invasive
Japanese Pachysandra	Pachysandra terminalis	5	well-drained soils, shade	spreading	6-12 in.	evergreen foliage	excellent groundcover for shady areas
Lily of the Valley	Convallaria majalis	3	well-drained, moist, acid soils, full shade	upright	4-8 in.	creamy white flowers	fragrant, may become invasive
Lilyturf	Liriope spicata	4	well-drained soils, part shade	clump with arching leaves	12 in.	purple or white flowers	alternative to turf grass in small area
Memorial Rose	Rosa wichuraiana	5	well-drained neutral soil, full sun	mat	2 in.	red fruit, white flowers	excellent for banks and slopes
Periwinkle	Vinca minor	4	well-drained, rich soils, full to part shade	trailing	3-6 in.	lavender-blue flowers, dark green foliage	turf grass alternative, use on slopes, can become invasive
Plantain Lily	Hosta	3	well-drained, moist soils, full to part shade	clump	12-20 in.	large leaves of varied colors	easy to plant and maintain
St. John's Wort	Hypericum calycinum	6	dry, rocky soils, part shade to full sun	trailing	12-18 in.	yellow flowers	fast growing, use on banks or slopes, may become invasive
Snow-in-Summer	Cerastium tomentosum	3	well-drained soils, full sun	trailing	3-6 in.	white flowers	evergreen foliage
Sweet Woodruff	Galium odoratum	4	well-drained, moist soils, part shade to full sun	clump	8 in.	white flower clusters	fragrant
Wild Ginger	Asarum canadense	3	rich, acid soils, full sun	spreading	6 in.	heart-shaped foliage	native
Wintercreeper	Euonymus fortunei	5	well-drained soils, full to part shade	trailing	6-12 in.	dark green foliage	many varieties

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You and Your Land - Perennials							
COMMON NAME	BOTANICAL NAME	ZONE*	PREFERRED SITE CONDITIONS	GROWTH HABIT	MATURE SIZE	DISTINCTIVE FEATURES	NOTES
American Columbine	Aquilegia canadensis	3	well-drained, moist soils, part shade to full sun	upright, branching	24-30 in.	flowers in early summer	many cultivars, attracts hummingbirds
Bee Balm	Monarda didyma	4	well-drained soils, full sun	upright	24-36 in.	pink flowers	spreads vigorously
Black-eyed Susan	Rudbeckia hirta	2	tolerates dry soils, full sun	upright	18-24 in.	yellow flowers	self-sows, naturalizer
Bleeding Hearts	Dicentra spectabilis	3	well-drained soils, full shade to part sun	mound	18 in.	feathery foliage, heart-shaped flowers	blooms spring to fall
Boneset	Eupatorium perfoliatum	3	well-drained soils, full sun	branched	5 ft.	white flowers	blooms July to August
Butterfly Flower	Asclepias tuberosa	3	well-drained soils, full sun	upright	36 in.	orange flowers	attracts butterflies
Cardinal Flower	Lobelia cardinalis	2	moist soils, part shade	upright	24-30 in.	red flower spikes	attracts hummingbirds
Chrysanthemum	Chrysanthemum morifolium	5	well-drained soils, full sun	upright	12-24 in.	wide variety of colors	blooms in fall
Coralbells	Heuchera sanguinea	3	rich soils, full sun	shrub	12-24 in.	red to pink flowers	water in dry summers
Daylily	Hemerocallis	3	well-drained, wet to dry soils, part shade to full sun	upright, arching foliage	20-30 in.	large trumpet flowers	easy to establish, spreading, can become invasive
Delphinium	Delphinium elatum	3	rich, well-drained soils, full sun	upright	48 in.	flowering spikes (many colors)	attracts butterflies
False Indigo	Baptisia australis	3	well-drained, moist soils, part shade to full sun	clump	36-48 in.	blue flowers	blooms May to June
Gayfeather	Liatris scariosa	3	light, moist soils, full sun	upright	3-5 ft.	purple flower spikes	tolerates heat and drought
Heath Aster	Aster ericoides	3	well-drained soils, full sun	upright	12-36 in.	white and yellow flowers	native
Hollyhocks	Althaea rosea	3	well-drained soils, full sun	upright	4-5 ft.	tall flower spikes	popular with many varieties
Iris	Iris species	5	moist soils, full sun	upright	15-36 in.	large flowers	many varieties and colors
Ironweed	Vernonia altissima	4	moist soils, full sun	upright	7 ft.	purple flowers	self-sowing
Monkshood	Aconitum lycoctonum	3	rich soils, part shade	upright	6 ft.	blue or white flowers	blooms late summer
Peony	Paeonia species	3	well-drained soils, full sun	upright	24-36 in.	intense flower colors	can be used as low hedge
Perennial Spiraea	Astilbe astilboides	6	moist soils, part sun	upright	36 in.	white flowers	many varieties
Persian Catmint	Nepeta faassenii	3	tolerates dry soils, full sun	upright	24 in.	12 in. violet spikes	aromatic
Purple Coneflower	Echinacea purpurea	3	tolerates dry soils, full sun	upright	24-36 in.	rose to purple flowers	tolerates windy, dry sites
Shooting Star	Dodecatheon meadia	3	rich, light woods soils, part shade	mound	6-20 in.	rose-colored flowers	sensitive to soil conditions
Sneezeweed	Helenium autumnale	3	moist soils, full sun	upright	6 ft.	yellow flowers	native, many varieties
Solomon's Seal	Polygonatum biflorum	3	moist soils, full shade	arching	24-36 in.	bell flowers	native
Turk's-cap Lily	Lilium superbum	5	moist, acid soils, full sun	upright	6 ft.	orange flowers	blooms July to August
Woodland Phlox	Phlox divaricata	3	moist, rich soils, part sun	mound	12 in.	blue flowers	native with many cultivars
Yarrow	Achillea filipendulina	3	well-drained soils, full sun	upright	36 in.	flat heads of gold flowers	flowers excellent for drying
Yellow Flag	Iris pseudacorus	5	heavy, wet soils, full sun	upright	36-48 in.	yellow flowers	plant at water's edge

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You and Your Land - Cool-Season Turfgrass							
MIXES	VARIETIES	PREFERRED SITE CONDITIONS	SEED	SEEDING RATE	SOD	NOTES	
Kentucky Bluegrass Category I for general use	Abbey, Aspen, Baron, Blacksbury, Classic, Eclipse, Georgetown, Glade, Gnome, Julia, Kelly, Liberty, Limousine, Livingston, Lofts 1757, Marquis, Merit, Midnight, Monopoly, NU-STAR, Preakness, Princeton 104, Ram I, Shamrock, Touchdown	well-drained soils, part to full sun	Aug 15 to Sept 14 or March to early April	2-3 lbs. per 1000 sq. ft.	establish anytime ground is not frozen	use a mixture or blend of three or four varieties	
Kentucky Bluegrass Category II for use in shade	Eclipse, Georgetown, Glade, Midnight	well-drained soils, shade	Aug 15 to Sept 14 or March to early April	2-3 lbs. per 1000 sq. ft.	establish anytime ground is not frozen	use a mixture with at least 65% of Category I varieties	
Kentucky Bluegrass Category II for use in low maintenance areas	Merit, Midnight, Monopoly, NU-STAR, Ram I, Washington	well-drained soils, part to full sun	Aug 15 to Sept 14 or March to early April	2-3 lbs. per 1000 sq. ft.	establish anytime ground is not frozen	use a mixture with at least 65% of Category I varieties	
Turf-Type Tall Fescue Category I for use in low to moderate maintenance areas	Amigo, Anthem, Apache, Arriba, Avanti, Aztec, Bonanza, Chieftan, Cimmaron, Crossfire, Duke, Eldorado, Finelawn 5GL, Finelawn 88, Guardian, Jaguar II, Jaguar III, Lancer, Maverick II, Mesa, Monarch, Montauk, Olympic II, Pixie, Rebel 3D, Rebel Jr, Safari, Shenandoah, Shortstop, SR 8200, SR 8300, Taurus, Titan, Tomahawk, Trailblazer II, Winchester, Wrangler	tolerates wide range of soils and climatic conditions, part shade to full sun	Aug 15 to Sept 14 or March to early April	4-6 lbs. per 1000 sq. ft.	establish anytime ground is not frozen	use a single variety or a mixture of multiple varieties	

SOURCE: Virginia Crop Improvement Association and Virginia Sod Certification Program
Web site at: <http://sudan.cses.vt.edu/html/turf/turfhome.htm>

Plants for Wind Breaks and Screens

TREES

American Holly *Ilex opaca*
Arborvitae *Thuja occidentalis*
Austrian Pine *Pinus nigra*
Golden Raintree *Koelreuteria paniculata*
Leyland Cypress *Cupressocyparis leylandii*
Norway Spruce *Picea abies*
Virginia Cedar *Juniperus virginiana*
White Pine *Pinus strobus*

SHRUBS

Flowering Quince *Chaenomeles speciosa*
Sargent Juniper *Juniperus chinensis sargentii*

GROUNDCOVERS

Bearberry *Arctostaphylos uva-ursi*
Blue Rug Juniper *Juniperus horizontalis*
Bugleweed *Ajuga reptans*
Creeping Cotoneaster *Cotoneaster adpressus*

Plants for Dry Soils

TREES

Chaste Tree *Vitex agnus-castus*
Golden Raintree *Koelreuteria paniculata* *
Honeylocust *Gleditsia triacanthos "Moraine"*
Northern Red Oak *Quercus rubra*
Scotch Pine *Pinus sylvestris*
Shagbark Hickory *Carya ovata*
Virginia Cedar *Juniperus virginiana*
Virginia Pine *Pinus virginiana*
White Oak *Quercus alba*

SHRUBS

Wax Myrtle *Myrica cerifera*
Bush Cinquefoil *Potentilla fruticosa*
Chinese Witchhazel *Hamamelis mollis*
Creeping Juniper *Juniperus horizontalis*
Flowering Quince *Chaenomeles speciosa*
Smokebush *Cotinus coggygria*
Staghorn Sumac *Rhus typhina*

GROUNDCOVERS

English or Baltic Ivy *Hedera helix* *
Japanese Pachysandra *Pachysandra terminalis*
Liriope *Liriope spicata*
Snow-in-Summer *Cerastium tomentosum*
St. John's Wort *Hypericum calycinum*

* invasive

Plants for Moist Locations

TREES

American Sweetgum *Liquidambar styraciflua*
Black Gum *Nyssa sylvatica*
Black Willow *Salix nigra*
Green Ash *Fraxinus pennsylvanica*
Red Maple *Acer rubrum*
River Birch *Betula nigra*
Serviceberry *Amelanchier canadensis*
Sugar Maple *Acer saccharum*
Swamp White Oak *Quercus bicolor*
Sycamore *Platanus occidentalis*
Willow Oak *Quercus phellos*

SHRUBS

American Cranberry Bush *Viburnum trilobum*
Arrowwood *Viburnum dentatum*
Inkberry *Ilex glabra*
Red Chokeberry *Aronia arbutifolia*
Siberian Dogwood *Cornus alba "Siberica"*
Silky Dogwood *Cornus amomum*
Summersweet *Clethra alnifolia*
Winterberry *Ilex verticillata*

PERENNIALS

Bee Balm *Monarda didyma*
Cardinal Flower *Lobelia cardinalis*
Coralbells *Heuchera sanguinea*
False Indigo *Baptisia australis*
Iris *Iris species*
Monkshood *Aconitum lycoctonum*
Perennial Spirea *Astilbe astilboides*
Solomon's Seal *Polygonatum biflorum*

Plants for Rain Gardens

TREES

Black Gum *Nyssa sylvatica*
 Northern Red Oak *Quercus rubra*
 Red Maple *Acer rubrum*
 White Ash *Fraxinus americana*

SHRUBS

Arrowwood *Viburnum dentatum*
 Spicebush *Lindera benzoin*
 Summersweet *Clethra alnifolia*
 Winterberry *Ilex verticillata*

PERENNIALS, GRASSES

Butterfly Flower *Asclepias tuberosa*
 Daylily *Hemerocallis* *
 Gayfeather *Liatris scariosa*
 Persian Catmint *Nepeta faassenii*
 Redtop *Agrostis alba*
 Tufted Hairgrass *Deschampsia caespitosa*
 Turk's-cap Lily *Lilium superbum*
 Yellow Flag *Iris pseudacorus*

GROUNDCOVERS

Bugleweed *Ajuga reptans*
 Periwinkle *Vinca minor* *

* invasive

Plants for Shady Locations

TREES

American Holly *Ilex opaca*
 Arborvitae *Thuja occidentalis*
 Eastern Hemlock *Tsuga canadensis*
 Eastern Redbud *Cercis canadensis*
 Flowering Dogwood *Cornus florida*
 Serviceberry *Amelanchier canadensis*
 Sugar Maple *Acer saccharum*

SHRUBS

Arrowwood *Viburnum dentatum*
 Boxwood *Buxus sempervirens*
 Inkberry *Ilex glabra*
 Summersweet *Clethra alnifolia*
 Yew *Taxus cuspidata*

PERENNIALS, VINES

American Columbine *Aquilegia canadensis*
 Bleeding Hearts *Dicentra spectabilis*
 Boston Ivy *Parthenocissus tricuspidata*
 Climbing Hydrangea *Hydrangea anomola*
 Solomon's Seal *Polygonatum biflorum*
 Woodland Phlox *Phlox divaricata*

GROUNDCOVERS

Bugleweed *Ajuga reptans*
 English or Baltic Ivy *Hedera helix* *
 Japanese Pachysandra *Pachysandra terminalis*
 Lily of the Valley *Convallaria majalis*
 Lilyturf *Liriope spicata*
 Periwinkle *Vinca minor* *
 Plantain Lily *Hosta*
 Sweet Woodruff *Galium odoratum*
 Wild Ginger *Asarum canadense*
 Wintercreeper *Euonymus fortunei*

Plants for Erosion Control

SHRUBS

American Cranberry Bush *Viburnum trilobum*
 Arnold Dwarf Forsythia *Forsythia arnoldi*
 Arrowwood *Viburnum dentatum*
 Bristly Locust *Robinia hispida* *
 Red Osier Dogwood *Cornus sericea*
 Winter Jasmine *Jasminum nudiflorum*

VINES

Grape *Vitis labrusca* varieties
 Virginia Creeper *Parthenocissus quinquefolia*
 Winter Creeper *Euonymus fortunei*

GROUNDCOVERS

Bearberry *Arctostaphylos uva-ursi*
 Blue Rug Juniper *Juniperus horizontalis* "Blue Rug"
 Creeping Cotoneaster *Cotoneaster adpressus*
 English or Baltic Ivy *Hedera helix* *
 Memorial Rose *Rosa wichuraiana*
 Periwinkle *Vinca minor* *

* invasive

Plants for Wildlife Habitat

TREES

American Holly *Ilex opaca*
Hackberry *Celtis laevigata*
Serviceberry *Amelanchier canadensis*
Virginia Cedar *Juniperus virginiana*
Wild Cherry *Prunus pennsylvanica*

SHRUBS

Black Haw Viburnum *Viburnum prunifolium*
Elderberry *Sambucus canadensis*
Mapleleaf Viburnum *Viburnum acerifolium*
Red Osier Dogwood *Cornus sericea*
Spicebush *Lindera benzoin*
Wax Myrtle *Myrica cerifera*
Winterberry *Ilex verticillata*

PERENNIALS

Boneset *Eupatorium perfoliatum*
Heath Aster *Aster ericoides*
Ironweed *Vernonia altissima*
Shooting Star *Dodecatheon meadia*
Sneezeweed *Helenium autumnale*

GRASSES

Big Bluestem *Andropogon gerardi*
Indian Grass *Sorghastrum nutans*
Switchgrass *Panicum virgatum*

Plants Near Septic Drain Fields

PERENNIALS AND VINES

American Columbine *Aquilegia canadensis*
Bee Balm *Monarda didyma*
Chrysanthemum *Chrysanthemum morifolium*
Clematis *Clematis tangutica*
Daylily *Hemerocallis* *
Delphinium *Delphinium elatum*
Hollyhocks *Athaea rosea*
Peony *Paeonia*
Yarrow *Achillea filipendulina*

Plants for Pedestrian Control

SHRUBS

Bearberry Cotoneaster *Cotoneaster dammeri*
Bristly Locust *Robinia hispida* *
Japanese Juniper *Juniperus procumbens*
Pfitzer's Juniper *Juniperus chinensis pfitzeriana*
Prostrate Cotoneaster *Cotoneaster horizontalis*
Sargent Juniper *Juniperus chinensis sargentii*

GROUNDCOVERS

Bearberry *Arctostaphylos uva-ursi*
Blue Rug Juniper *Juniperus horizontalis* "Blue Rug"
Creeping Cotoneaster *Cotoneaster adpressus*
Memorial Rose *Rosa wichuraiana*

* invasive